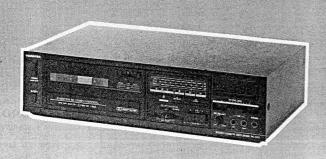
# TOSHIBA

STEREO CASSETTE DECK

# C-G33



PC-G33 is available in two colors, silver and black.

#### **SPECIFICATIONS**

Heads:

Record/Playback AP head

Drive System:

Erase AF (2-gap ferrite) head 2-motor IC logic control

Motors:

DC servo motor for capstan

DC motor for reel drive

Tape Speed: Wow & Flutter:

4.8 cm/sec. 0.045% W. RMS

Fast Forward and

Rewind Time: Approx. 80 sec. (C-60 tape) Frequency Response: 20 – 18000 Hz with metal tape

and -20 dB input

20 - 16000 Hz with chrome tape and -20 dB input 20 - 15000 Hz with normal tape and -20 dB input

SN Ratio:

56 dB (peak level, WTD, chrome

position tape)

Distortion (3rd):

0.8% (400 Hz, 0 dB chrome

position tape)

Bias Frequency:

85 kHz

Input Terminals:

MIC:

0.7 mV

LINE:

(600 ohm - 10k ohm) 70 mV (50k ohm)

**Output Terminals:** 

LINE:

360 mV (3k ohm) Headphone: 0.1 mW (8 ohm)

Power Supply:

AC 120V, 50/60 Hz (TA, TC)

AC 220V, 50 Hz (TE, FR)

AC 240V, 50 Hz (TU, AY) 420 (W) x 112 (H) x 272 (D)

Major Dimensions:

mm (including front panel

knobs etc. and rubber sup-

ports)

Weight:

3.8 kg

Specifications are subject to change without notice.

TA, TC, TE, TU, FR, AY

PRINTED IN JAPAN 22905313 June, 1984 (S)

# 1. OPERATING CONTROLS

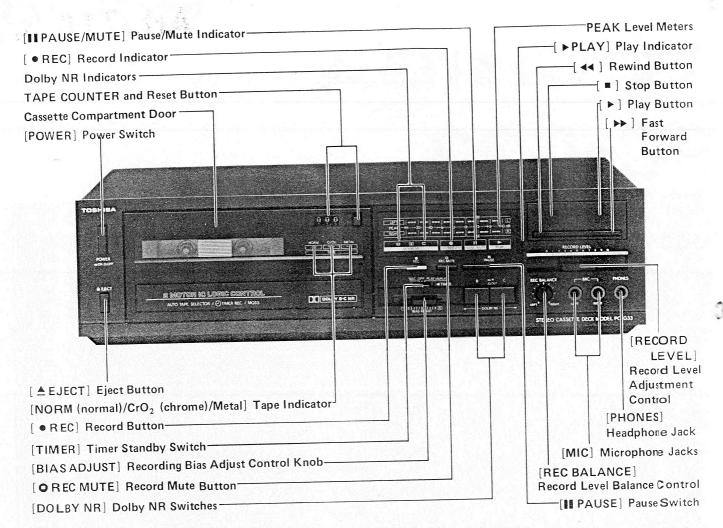


Figure 1

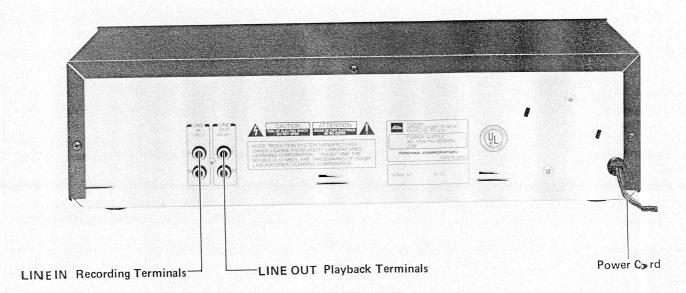
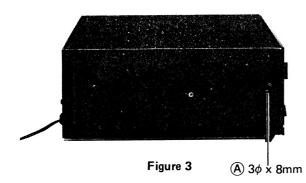


Figure 2

## 2. DISASSEMBLY INSTRUCTIONS

#### **TOP COVER REMOVAL**

1. Remove two screws (A)  $(3\phi \times 8\text{mm})$  from each side of top cover and three screws (B)  $(3\phi \times 8\text{mm})$  from rear side of unit, then the top cover can be removed from the unit. (See Figure 3, 4 and 5)



(A) 3φ x 8mm Figure 4

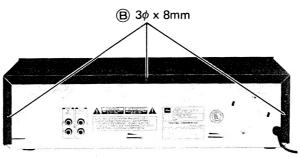
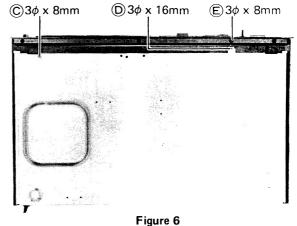


Figure 5

# FRONT PANEL ASSEMBLY REMOVAL (with Mechanism Assembly)

- 1. Remove the top cover. (See Figure 3, 4 and 5)
- 2. Pull out the REC BALANCE knob from front panel.
- 3. Remove two screws  $\bigcirc$  (3 $\phi$  x 8mm) and  $\bigcirc$  (3 $\phi$  x 16mm). (See Figure 6)
- 4. Remove one screw  $\bigcirc$  (3 $\phi$  x 8mm) then the front panel assembly can be removed from the unit. (See Figure 6)



### MECHANISM ASSEMBLY REMOVAL

- 1. Remove the front panel.
- 2. Remove four screws  $\bigcirc$  (3 $\phi$  x 18mm) then the mechanism assembly can be removed from the front panel assembly. (See Figure 7)

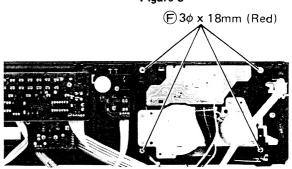


Figure 7

# 3. BLOCK DIAGRAM

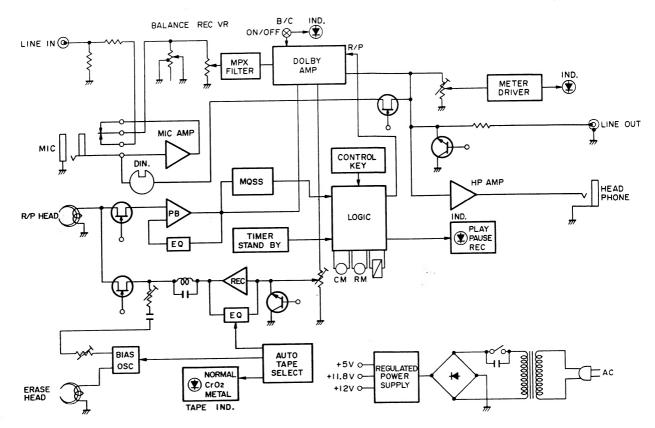


Figure 8

# 4. ADJUSTMENTS

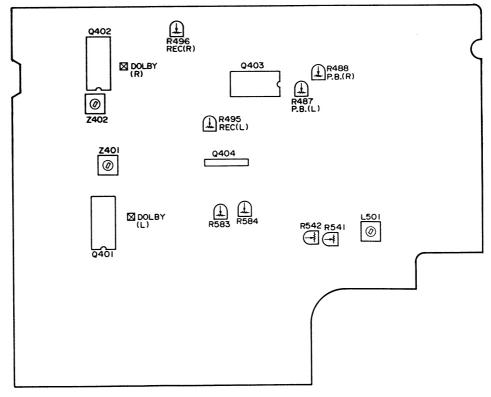
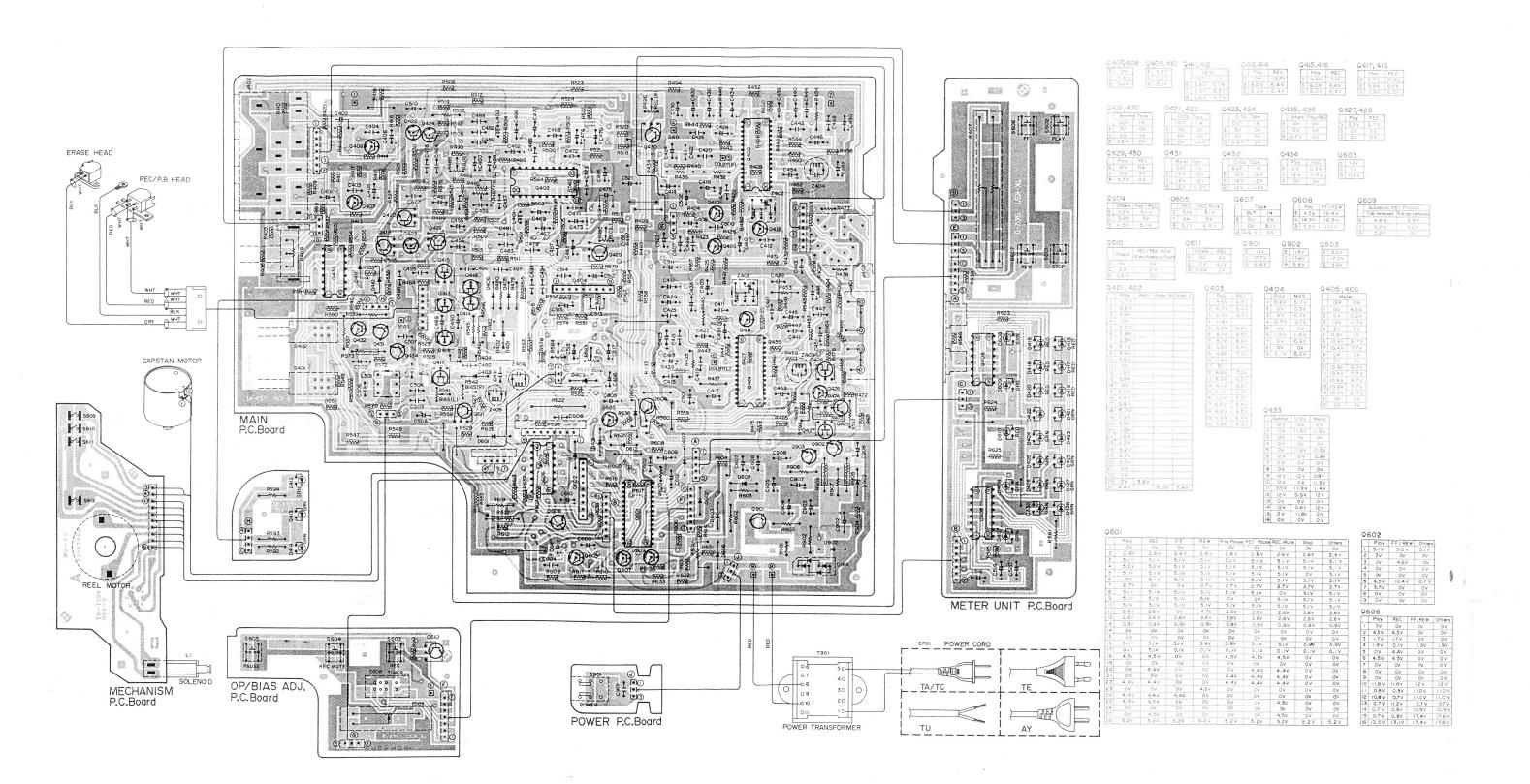
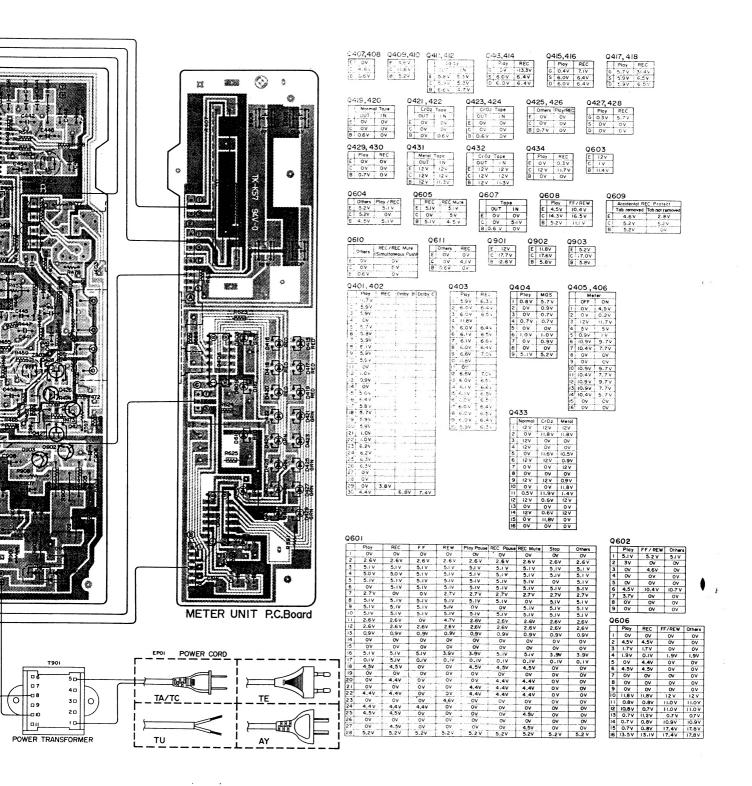


Figure 9

# 5. ELECTRICAL PARTS LOCATIONS



# **LOCATIONS**



#### **TEST EQUIPMENTS**

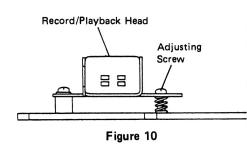
- 1. VTVM (Vacuum Tube Voltmeter)
- 2. Signal Generator
- 3. Resistance Attenuator
- 4. Screwdriver
- 5. Test Tapes:

MTT-111 (Speed 3 kHz - 5 dB) MTT-114 (Azimuth 10 kHz)

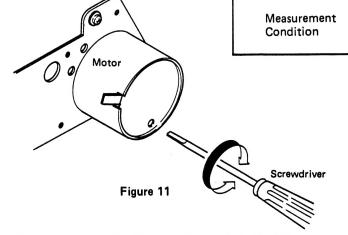
MTT-150 (Dolby 400 Hz Modulation) AC-512 (Chrome Tape)

6. Frequency Counter

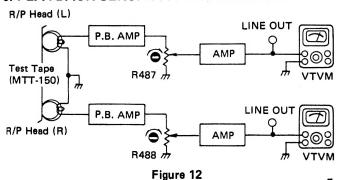
# 1. HEAD AZIMUTH ADJUSTMENT



## 2. TAPE SPEED



### 3. PLAYBACK SENSITIVITY ADJUSTMENT



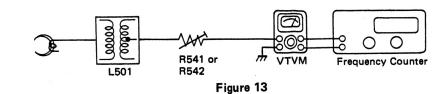
**Switch Position** Rec. Bal-Rec. Level Input Fre-Adjustable Connection Remarks **Test Point** Adjustment Item **Test Value** Test Tape ance Con-Control No. **Parts** TAPE INPUT trol R408 NR R407 VTVM Apply a lock paint after Adjusting Head Azimuth LINE OUT NOR OUT MTT-114 Maximum (LINE OUT) adjustment. Screw Adjustment Internal Frequency Semifixed 3000 LINE OUT OUT Counter Take-up beginning of tape. MTT-111 NOR Tape Speed VR of ±30 Hz (LINE OUT) Motor Playback R487, 488 LINE OUT See Figure 12 NOR OUT MTT-150 500 ± 10mV Sensitivity Adjustment Bias Oscillator See Figure 13 REC **METAL** OUT L501 R541 or R542 85 kHz Adjustment Line Input REC-VR R407 Do not vary REC-VR after LINE IN LINE OUT -20 dB OUT See Figure 14  $CrO_2$ Adjustment Sensitivity 350 ± 10mV Center BAL-VR R408 adjustment. Adjustment 400 Hz Rec/PB LINE OUT 10 kHz Variation of 10 kHz to 400 Hz. OUT LINE IN R541, 542 See Figure 15 AC-512 Adjustment  $CrO_2$  $0 \pm 1 dB$ Center Frequency -40 dB Adjustment Rec/PB 400 Hz Monitor Output: 350 mV, See Figure 16 LINE OUT  $CrO_2$ OUT LINE IN R495, 496 AC-512 Center Adjustment Monitor Output Sensitivity -20 dB (Reference Value) Adjustment Playback test tape (MTT-150) and adjust until +3 dB LED (RED) light **LED Meter** R583, 584  $CrO_2$ OUT MTT-150 Level Adjustment 

• Power Supply: TE: 220V, TU/AY = 240V, TA, TC = 120V

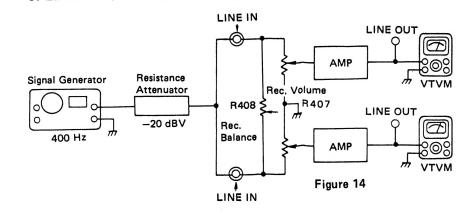
• Input: 0 dB 1V rms • LINE IN (Input Inpedance): 600 ohms

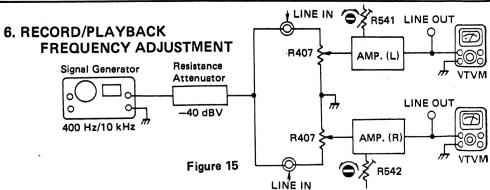
■ LINE OUT (Load Impedance): 47K ohm
 ■ Test Point Load Impedance: Non Load.

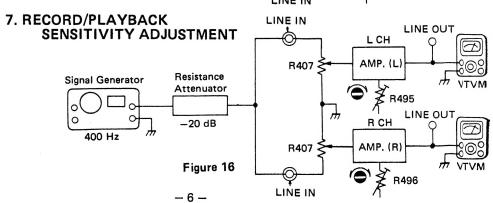
#### 4. BIAS OSCILLATOR ADJUSTMENT

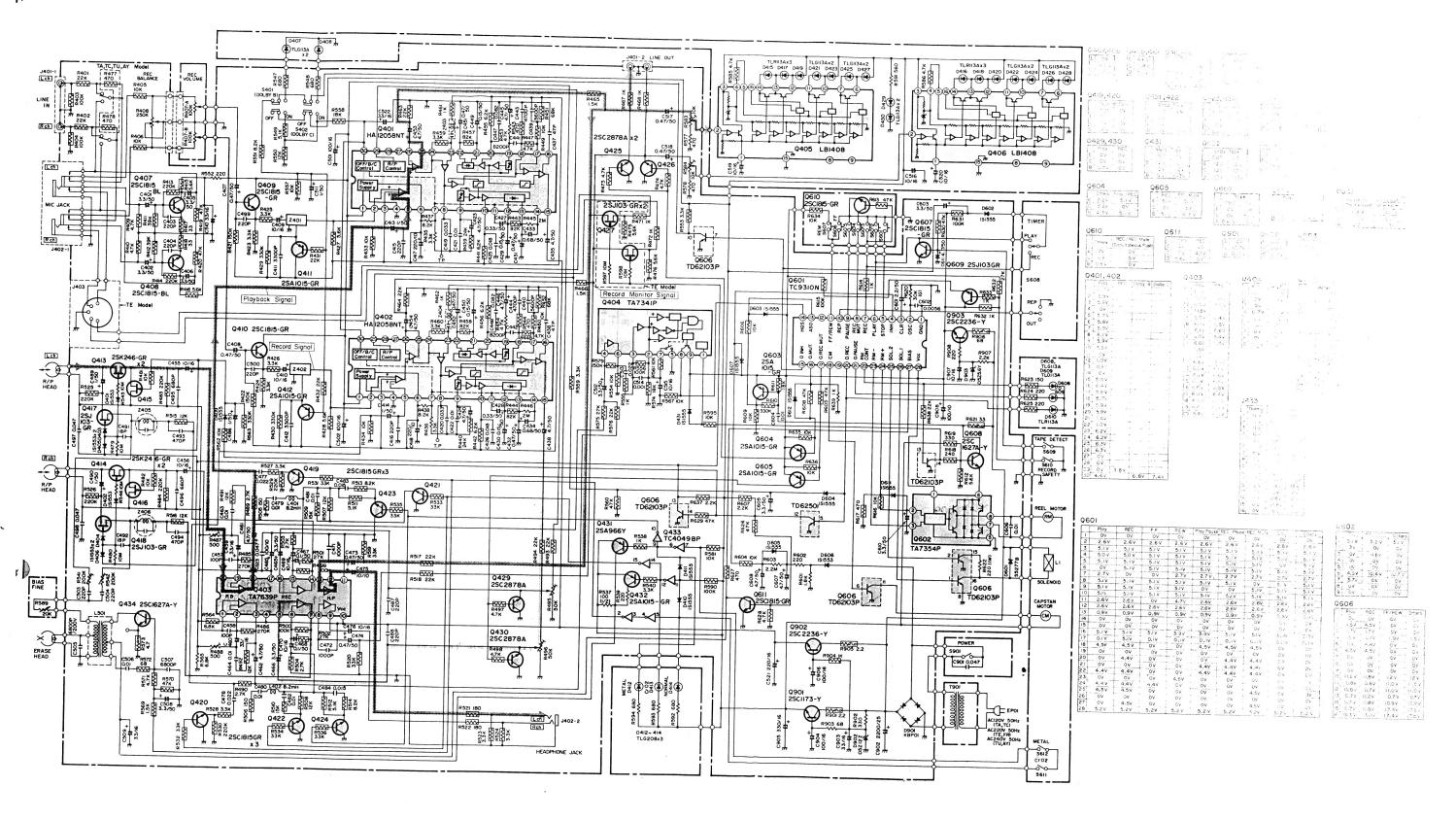


5. LINE INPUT SENSITIVITY ADJUSTMENT

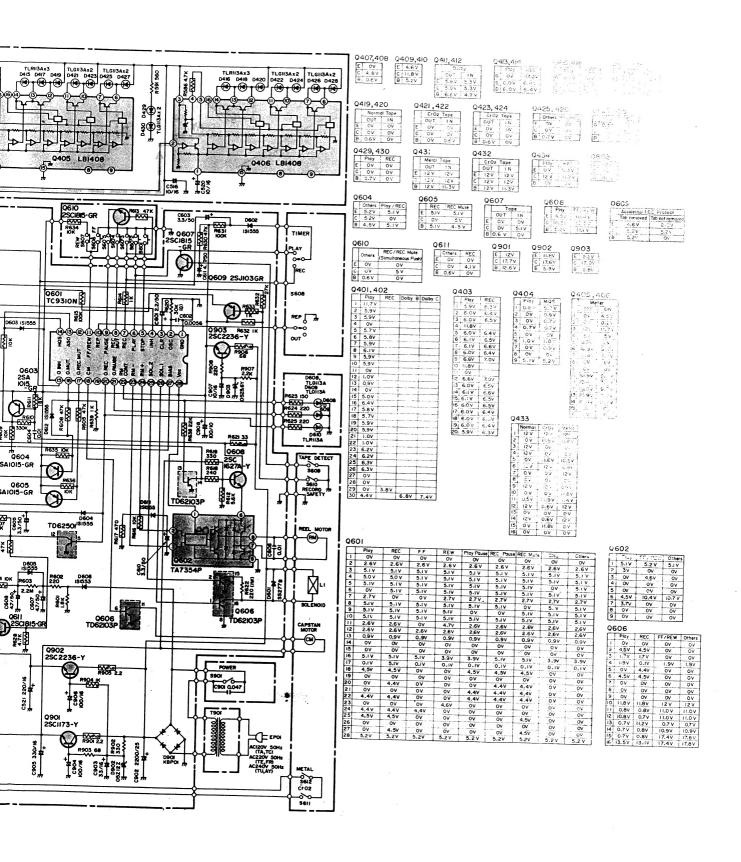








# ATIC DIAGRAM



CAUTION:
gure 18 The A mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified

# 7-1. EXPLODED VIEW CABINET

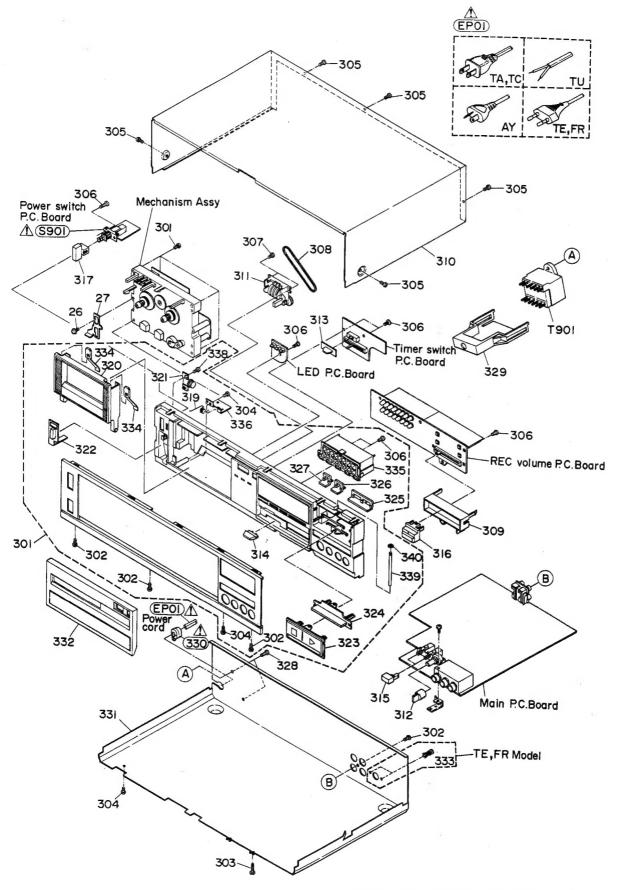


Figure 19 - 9 -

NOTE: Parts exclude in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering they items.

# 7-2. CABINET PARTS LIST

CAUTION: The  $\triangle$  mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

in the parts list.		WANTED A SAMPLE OF THE OWNER OWNER OF THE OWNER O
Symbol No.	Part No.	Description
301	22707806	Screw, 2DTBID 3φ x 25mm
302	22707826	Screw, 2DTBID 3φ x 10mm
		(TC, TE, FR, TU, AY)
302	22708033	Screw, 2DTBID 3φ x 10mm
		(K-TA, K-TC, K-TE)
303	22707835	Screw, 2DTBID $3\phi \times 16$ mm
304	22707842	Screw, 2DTBID $3\phi \times 8$ mm
305	22707886	Screw, 2DTBID 3 $\phi$ x 10mm
		(TC, TE, FR, TU, AY)
305	22707885	Screw, 2DTBID 3 $\phi$ x 8mm (K-TA, K-TC, K-TE)
306	22708207	Screw, 2DTBID 2.6 $\phi$ × 10mm
307	22708208	Screw, 2DTPAN 2.6 \$\phi \times 10mm
308	25759006	Belt, Tape Counter
309	25844284	Decoration, Slide Volume
310	25864241	Top Cover
		(TC, TE, FR, TU, AY)
310	25864328	Top Cover
		(K-TA, K-TC, K-TE)
311	25873284	Tape Counter
312	25886009	Knob, Rec Balance
212	25886124	(TC, TE, FR, TU, AY)
312	20000124	Knob, Rec Balance (K-TA, K-TC, K-TE)
313	25886221	Knob, Timer
		(TC, TE, FR, TU, AY)
313	25886313	Knob, Timer
		(K-TA, K-TC, K-TE)
314	25886222	Knob, Bias Adjust
		(TC, TE, FR, TU, AY)
314	25886314	Knob, Bias Adjust
		(K-TA, K-TC, K-TE)
315	25886223	Knob, Dolby B/C
		(TC, TE, FR, TU, AY)
315	25886315	Knob, Dolby B/C
	0500000	(K-TA, K-TC, K-TE)
316	25886224	Knob, Record Balance
210	25000010	(TC, TE, FR, TU, AY)
316	25886316	Knob, Record Balance
217	22824454	(K-TA, K-TC, K-TE)
317	22024454	Knob, Power
317	22824465	(TC, TE, FR, TU, AY) Knob, Power
1 31/	22027700	(K-TA, K-TC, K-TE)
318	25819590	Panel Ass'y, Front
		(TC, TE, TU, AY)
318	25819600	Panel Ass'y, Front (FR)
318	25899001	Panel Ass'y, Front (K-TA)
asa a sa		
Minediano		

	Symbol No.	Part No.	Description		
	318	25899002	Panel Ass'y, Front (K-TC, K-TE)		
	319	25775280	Spring, Cassette Eject		
	320	25832923	Cassette Holder		
	321	25883246	Damper, Cassette Holder		
	322	25886032	Knob, Eject		
			(TC, TE, FR, TU, AY)		
	322	25886123	Knob, Eject		
	323	25886231	(K-TA, K-TC, K-TE) Knob, Play		
			(TC, TE, FR, TU, AY)		
	323	25886317	Knob, Play (K-TA, K-TC, K-TE)		
	324	25886232	Knob, FF/Rewind		
			(TC, TE, FR, TU, AY)		
	324	25886318	Knob, FF/Rewind		
			(K-TA, K-TC, K-TE)		
	325	25886233	Knob, Pause		
			(TC, TE, FR, TU, AY)		
	325	25886319	Knob, Pause		
			(K-TA, K-TC, K-TE)		
	326	25886234	Knob, Mute		
			(TC, TE, FR, TU, AY)		
	326	25886320	Knob, Mute		
			(K-TA, K-TC, K-TE)		
	327	25886235	Knob, Rec		
	328	22707871	Screw, 2DTBID 4 $\phi$ x 12mm		
	329	25854502	Cover, Power Transformer		
$\Delta$	330	25844322	Bush, Power Cord		
Δ		100	(TA, TC, TE, TU, AY)		
Δ	330	25845528	Bush, Pawer Card (FR)		
	331	25864371	Jack Plate (TC, K-TA, K-TC)		
	331	25864349	Jack Plate (TE)		
	331	25864368 25864370	Jack Plate (TU, AY)		
	331	25883336	Jack Plate (FR)		
	332	23663336	Cassette Cover Ass'y (TC, TE, TU, AY)		
	332	25883494	Cassette Cover Ass'y (FR)		
	332	25883495	Cassette Cover Ass'y		
	552	20000100	(K-TA, K-TC, K-TE)		
	333	22705022	Rivet, 3¢ x 5.5mm		
	334	25779391	Spring, Cassette Holder		
	001		opinig, oassette riolaes		
		to management			

# 8-1. EXPLODED VIEW MECHANISM

TC

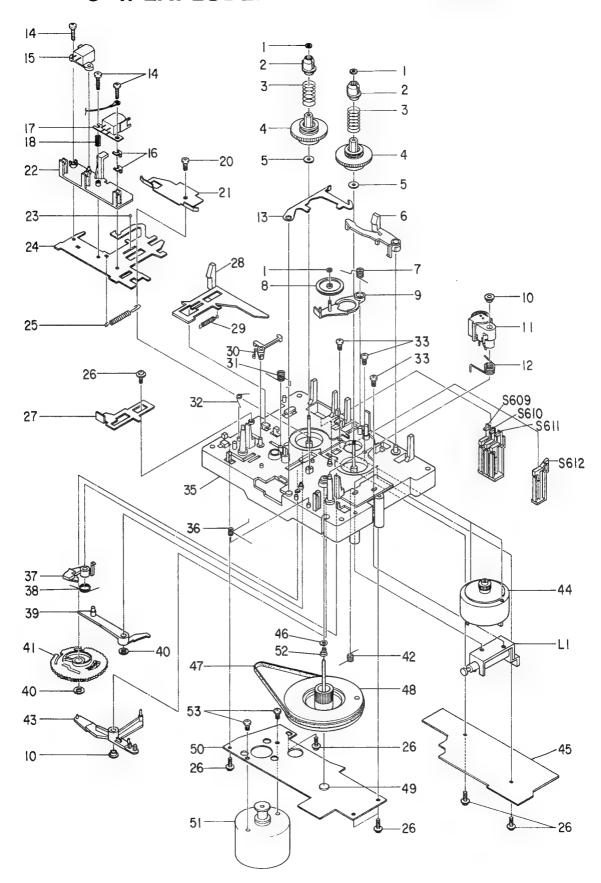


Figure 20 -- 11 --

NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine servies. Some delay should be anticipated when ordering they items.

# 8-2. MECHANISM PARTS LIST

Symbol No.	Part No.	Description
1	25766050	Washer, 1.6φ, Reel Drum
2	25754436	Reel Collar
3	25777392	Spring, Reel Drum
4	25754469	Reel Drum
5	25764597	Washer, Reel Drum
6	25784145	Holder Lever
7	25778161	Spring, Holder Lever
8	25756408	Gear, Transfer
9	25791787	Take-up Gear Ass'y
10	25783260	Bush
11	25717600	Pressure Roller Ass'y
12	25778159	Spring, Pressure Roller
14	22707507	Screw, BID Hd, $2\phi \times 8$ mm
15	22218255	Erase Head
16	25735266	Spacer, Adjust
17	22217428	Record/Playback Head
18	25777137	Spring, Head Azimuth
20	22708040	Screw, BID Hd,
		$2\phi \times 5$ mm, Tapping
21	25779427	Spring, Hold
22	25781283	Head Base
23	25757132	Steel Ball
25	25776721	Spring, Assist
26	22707361	Screw, TPAN Hd,
		2.6φ x 8mm

Symbol No.	Part No.	Description		
28	25784148	Slider, Eject		
29	25776722	Spring, Eject Slider		
30	25784146	Lever, Lock		
31	25778158	Spring, Slider		
32	25778160	Spring, Lock		
33	25707475	Screw, BID Hd, 2.6 $\phi$ x 4mm		
35	25791715	Mechanism Chassis Ass'y		
36	25778164	Spring, MQS		
37	25784147	Lever, Play Lock		
38	25778163	Spring, Play Lock		
39	25784150	Lever, Play		
40	20798033	Ring		
41	25756409	Cam Gear, Main		
42	25778162	Spring, Cam Lock		
43	25784151	Lever, Cam Lock		
44	25791714	Reel Motor Ass'y		
45	22192469	P.C. Board, Mechanism		
46	25764486	Washer, Flywheel		
47	25755600	Belt, Main		
48	25797007	Flywheel Ass'y		
49	25766024	Washer, Thrust		
51	25791713	Main Motor Ass'y		
52	25777071	Spring, Flywheel		
53	22701389	Screw, BID, Hd, 2.6 p x 3mm		

65666

# 9. ELECTRICAL PARTS LIST

CAUTION:
The A mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TR	ANSISTOR	S, IC'S & DIODES
Q401, 402 Q403 Q404 Q405, 406 Q407, 408 Q409, 410 Q411, 412 Q413, 414	22117220 B0356360 B0325320 22117479 A6317480 A6317460 A6534060 A6044630	IC, HA12058NT IC, TA7639P IC, TA7341P IC, LB1408 Transistor, 2SC1815NEW-BL Transistor, 2SC1815NEW-GR Transistor, 2SA1015-GR Transistor, 2SK246-GR
Q415, 416 Q417, 418 Q419, 420 Q421, 422 Q423, 424	A6044630 A6040910 A6317460 A6317460 A6317460	Transistor, 2SK246-GR Transistor, 2SJ103-GR Transistor, 2SC1815NEW-GR Transistor, 2SC1815NEW-GR Transistor, 2SC1815NEW-GR

Symbol No.	Part No.	Description
Q425, 426	A6342200	Transistor, 2SC2878A
Q427, 428	A6040910	Transistor, 2SJ103-GR (TE, FR, K-TE)
Q429, 430	A6342200	Transistor, 2SC2878A
Q431	A6533240	Transistor, 2SA966-Y
Q432	A6534040	Transistor, 2SA1015-GR
Q433	B0470494	IC, TC4049BP
Q434	A6314470	Transistor, 2SC1627A-Y
Q601	B0413159	IC, TC9310N-060
Q602	B0325460	IC, TA7354P
Q603	A6534060	Transistor, 2SA1015-GR
Q604, 605	A6534060	Transistor, 2SA1015-GR
Q606	B0275005	IC, TD62103P
Q607	A6317460	Transistor, 2SC1815NEW-G R

Symbol No.	Part No.	Description			
Q608	A6314470	Transistor, 2SC1627A-Y			
Q609	A6317460	Transistor, 2SC1815NEW-GR			
Q610	A6317460	Transistor, 2SC1815NEW-GR			
Q611	A6317460	Transistor, 2SC1815NEW-GR			
Q901	A677164A	Transistor, 2SC1173-Y			
Q902	A6325540	Transistor, 2SC2236-Y			
Q903	A6325540	Transistor, 2SC2236-Y			
D401, 402	A7246601	Diode, 1S1553			
D403, 404	A7246601	Diode, 1S1553			
D405, 406	A7246601	Diode, 1S1553			
D407, 408	A8605666	Diode, TLG113A			
D409	A7246703	Diode, 1S1555			
D410, 411	A7246703	Diode, 1S1555			
D412, 413	A8606660	Diode, TLG208			
D414	A8606660	Diode, TLG208			
D415, 416	A8600607	Diode, TLR113A			
D417, 418	A8600607	Diode, TLR113A			
D419, 420	A8600607	Diode, TLR113A			
D421, 422	A8605666	Diode, TLG113A			
D423, 424	A8605666	Diode, TLG113A			
D425, 426	A8605666	Diode, TLG113A			
D427, 428	A8605666	Diode, TLG113A			
D429, 430	A8605666	Diode, TLG113A			
D431	A7246703	Diode, 1S1555			
D601	A7978380	Diode, \$5277B			
D602	A7246703	Diode, 1S1555			
D603	A7246703	Diode, 1S1555			
D604	A7246703	Diode, 1S1555			
D605	A7246703	Diode, 1S1555			
D606	A7246601	Diode, 1S1553			
D608	A8605666	Diode, TLG113A			
D609	A8611730	Diode, TLO113A			
D610	A8600607	Diode, TLR113A			
D611	A7246703	Diode, 1S1555			
D612	A7246703	Diode, 1S1555			
D901	22115737	Diode, KBP01			
		(TA, TC, TE, FR, AY)			
D901	22115875	Diode, KBP01-E (TU)			
D902	A7110412	Diode, 05Z12-Z			
D903	A7110017	Diode, 10Z5.6-Y			
	ELECTRI	CAL PARTS			
J401-1, 2	22163887	Jack, US-4P			
J401-1, 2 J402-1, 2	T				
	22163887	Jack, US-4P			

Symbol	Part No.	Description	
No. S401_402	22196453		
S401, 402 S601, 602 S603, 604 S605 S606, 607 S608 S609 S610 S611 S612 S901 L1 L401, 402 L501 Z401, 402 Z403, 404 Z405, 406 T901 T901 T901 T901 T901 EP01 EP01 EP01 EP01	22196453  22196490 22196490 22196490 22196490 22195566 22196436 22196436 22196437  22196058  22147269 22232278 22235231  22153278 22153277 22153229  22224155 22224163 22224157  22176644 22176644 22176641 22176588	Push Switch, Dolby B/C  Key Switch, Stop/Play Key Switch, Rec./Rec Mute Key Switch, Pause Key Switch, FF/Rewind Slide Switch, Timer Leaf Switch, Tape Detect Leaf Switch, Record Safety Leaf Switch, Metal  Push Switch, Power  Solenoid Coil, 8.2mH Coil, Bias Oscillator  Dolby Filter Dolby Filter Coil, Bias Trap  Transformer, Power (TC) Transformer, Power (TE, FR) Transformer, Power (TU, AY)  Power Cord (TA, TC) Power Cord (TE, FR) Power Cord (TU) Power Cord (TU)	
G = ±2%, J =		ACITORS %, Z = -20 + 80%	
ABBREVIA.	•	Ceramic Disk, EL = Eectrolytic	
C401, 402 C403, 404 C405, 406 C407, 408 C409, 410 C411, 412 C413, 414 C415, 416 C417, 418 C419, 420 C421, 422	22488339 22349221 22488339 22488478 22485100 22371332 22488109 22349221 22483221 22321315 22371103	EL, 3.3mfd, 50V CD, 220pF, 50V, K EL, 3.3mfd, 50V EL, 0.47mfd, 50V EL, 10mfd, 16V MY, 3300pF, 50V, J EL, 1mfd, 50V CD, 220pF, 50V, K EL, 220mfd, 10V PF, 0.033mfd, 10(V), G MY, 0.01mfd, 50V, J	

	I		
Symbol	Part No.	Description	
No.		•	
C423, 424	22488479	EL, 4.7mfd, 50V	
C425, 426	22371183	MY, 0.018mfd, 50V, J	
C427, 428	22480006	EL, 0.33mfd, 50V	
C429, 430	22488158	EL, 0.15mfd, 50V	
C431, 432	22488478	EL, 0.47mfd, 50V	
C433, 434	22480008	EL, 0.68mfd, 50V	
C435, 436	22488479	EL, 4.7mfd, 50V	
C437, 438	22361470	CD, 47pF, 50V, J	
C439, 440	22371562	MY, 5600pF, 50V, J	
C441, 442	22371822	MY, 8200pF, 50V, J	
C443, 444	22371472	MY, 4700pF, 50V, J	
C445, 446	22488479	EL, 4.7mfd, 50V	
C447, 448	22371823	MY, 0.082mfd, 50V, J	
C449, 450	22488158	EL, 0.15mfd, 50V	
C451, 452	22488478	EL, 0.47mfd, 50V	
C453, 454	22488479	EL, 4.7mfd, 50V	
C455, 456	22485100	EL, 10mfd, 16V	
C457, 458	22362101	CD, 100pF, 50V, K	
C459, 460	22485330	EL, 33mfd, 16V	
C461, 462	22488479	EL, 4.7mfd, 50V	
C463, 464	22371103	MY, 0.01mfd, 50V, J	
C465, 466	22488339	EL, 3.3mfd, 50V	
C467, 468	22480003	EL, 0.1mfd, 50V	
C469, 470	22485100	EL, 10mfd, 16V	
C471, 472	22349102	CD, 1000pF, 50V, K	
C473, 474	22488478	EL, 0.47mfd, 50V	
C475, 476	22485100	EL, 10mfd, 16V	
C477, 478	22471223	MY, 0.022mfd, 50V, J	
C479, 480	22371103	MY, 0.01mfd, 50V, J	
C481, 482	22371103	MY, 0.01mfd, 50V, J	
C483, 484	22371153	MY, 0.015mfd, 50V, J	
C485	22483101	EL, 100mfd, 10V	
C486	22488109	EL, 1mfd, 50V	
C487, 488	22349221	CD, 220pF, 50V, K	
C489, 490 C491, 492	22488109	EL, 1mfd, 50V	
C491, 492 C493, 494	22361180 22349471	CD, 18pF, 50V, J CD, 470pF, 50V, K	
C495, 494 C495, 496	22349681	CD, 470pF, 50V, K	
C497, 498	22342473		
C497, 498 C499, 500	22342473	CD, 0.047mfd, 50V, Z CD, 220pF, 50V, K	
C501, 502	22349221	EL, 100mfd, 16V	
C501, 502 C503, 504	22349221	CD, 220pF, 50V, K	
C505, 504	22349221	PF, 6800pF, 200V, J	
C506	22371103	MY, 0.01mfd, 50V, J	
C506	22371103	MY, 6800pF, 50V, J	
C507	22488339	EL, 3.3mfd, 50V	
C509	22485339	EL, 33mfd, 50V	
C510	22485330	EL, 33mfd, 16V	
C510	22488109	EL, 1mfd, 50V	
C512	22488339	EL, 3.3mfd, 50V	
C513	22342223	CD, 0.022mfd, 50V, Z	
C514	22349102	CD, 1000pF, 50V, K	
		, , , , , , , , , , , , , , , , , , , ,	

Symbol No.	Part No.	Description		
C515	22485100	EL, 10mfd, 16V		
C516	22485100	EL, 10mfd, 16V		
C517, 518	22488478	EL, 0.47mfd, 50V		
C519, 520	22485100	EL, 10mfd, 16V		
C521	22485221	EL, 220mfd, 16V		
C522	22485330	EL, 33mfd, 16V		
C523	22342473	CD, 0.047mfd, 50V, Z		
C601	22488229	EL, 2.2mfd, 50V		
C602	22371562	CD, 5600pF, 50V, J		
C603	22488339	EL, 3.3mfd, 50V		
C604	22342103	CD, 0.01mfd, 50V, Z		
C605	22488339	EL, 3.3mfd, 50V		
C606	22342103	CD, 0.01mfd, 50V, Z		
C607, 608	22488479	EL, 4.7mfd, 50V		
C610	22488339	EL, 3.3mfd, 50V		
C611	22488479	EL, 4.7mfd, 50V		
C901	22342473	CD, 0.047mfd, 50V,Z		
C902	22486222	EL, 2200mfd, 25V		
C903	22485330	EL, 33mfd, 16V		
C904	22485101	EL, 100mfd, 16V		
C905	22485331	EL, 330mfd, 16V		
C906	22485101	EL, 100mfd, 16V		
C907	22485100	EL, 10mfd, 16V		
C908	22483101	EL, 100mfd, 10V		
•				
RESISTORS				

### **RESISTORS**

- 1. Resistors are Fixed Carbon Film  $^4W$ ,  $^\pm 5\%$ , unless otherwise noted. K = 1000, M = 1000000.
- 2. PRC is short for the printed resistor circuit. IF replacement of the resistor in PRC is required, please use the substitutional fixed carbon film resistor of  $\frac{1}{2}$ W,  $\pm 5\%$  according to the following list.

R401, 402	22545223	22K ohm (PRC)
R403, 404	22545104	100K ohm (PRC)
R405, 406	22545103	10K ohm (PRC)
R407	22657337	100K ohm x 2, Variable,
		REC Level
R408	22620066	250K ohm x 2, Variable,
		REC Balance
R409, 410	22545472	4.7K ohm (PRC)
R411, 412	22545393	39K ohm (PRC)
R413, 414	22545224	220K ohm (PRC)
R415, 416	22545562	5.6K ohm (PRC)
R417, 418	22545330	33 ohm (PRC)
R419, 420	22545473	47K ohm (PRC)
		·

Symbol No.	Part No.	Description		Symbol No.	Part No.	Description
R421, 422	22545154	150K ohm (PRC)		R529, 530	22545224	220K ohm (PRC)
R423, 424	22545332	3.3K ohm (PRC)		R531, 532	22545333	33K ohm (PRC)
R425, 426	22545332	3.3K ohm (PRC)		R533, 534	22545333	33K ohm (PRC)
R427, 428	22545562	5.6K ohm (PRC)		R535, 536	22545333	33K ohm (PRC)
R429, 430	22545334	330K ohm (PRC)		R537	22547101	100 ohm, 1/2W
R431, 432	22545223	22K ohm (PRC)		R538	22545102	1K ohm (PRC)
R433, 434	22545103	10K ohm (PRC)		R539	22545221	220 ohm
R435, 436	22545332	3.3K ohm		R540 R541, 542	22545332 22658803	3.3K ohm (PRC) 200K ohm, Semi-fixed
R437, 438	22545822	8.2K ohm		R541, 542 R543, 544	22545471	470 ohm (PRC)
R439, 440	22540730	24K ohm (PRC)		R545, 546	22545106	10M ohm
R441, 442	22550491	6.2K ohm (PRC)		R547, 548	22545681	680 ohm (PRC)
R443, 444	22545823	82K ohm (PRC)		R549	22540694	5.1K ohm (PRC)
R445, 446	22550495	2M ohm		R550	22545123	12K ohm (PRC)
R447, 448	22545472	4.7K ohm (PRC)		R551	22545822	8.2K ohm (PRC)
R449, 450	22545103	10K ohm (PRC)		R552	22545221	220 ohm
R451, 452	22545683	68K ohm (PRC)		R553	22545332	3.3K ohm (PRC)
R453, 454	22545473	47K ohm		R554	22545103	10K ohm (PRC)
R455, 456	22550491	6.2K ohm (PRC)		R555	22545102	1K ohm (PRC)
R457, 458	22545823	82K ohm (PRC)		R556	22545104	100K ohm (PRC)
R459, 460	22545332	3.3K ohm (PRC)		R557	22545103	10K ohm (PRC)
				R558	22545183	18K ohm (PRC)
R461, 462	22545102	1K ohm (PRC)		R559	22545332	3.3K ohm (PRC)
R463, 464	22545223	22K ohm (PRC)		R560	22545473	47K ohm (PRC)
R465, 466	22545152	1.5K ohm (PRC)		R561 R562	22545103	10K ohm (PRC) 10K ohm (PRC)
R467, 468	22545102	1K ohm (PRC)		R563	22545103 22545334	330K ohm (PRC)
R471, 472	22545102	1K ohm (PRC)		R564	22545682	6.8K ohm (PRC)
R473, 474	22545472	4.7K ohm (PRC)		R565	22545682	6.8K ohm (PRC)
R475, 476	22545562	5.6K ohm (PRC)		R567	22545103	10K ohm (PRC)
R477, 478	22545471	470 ohm (TA, TC, TU, AY)		R569	22545152	1.5K ohm (PRC)
		(PRC)		R570	22545473	47K ohm (PRC)
R479, 480	22545106	10M ohm		R571	22545472	4.7K ohm (PRC)
R481, 482	22545103	10K ohm (PRC)		R572	22545680	68 ohm (PRC)
R483, 484	22545224	220K ohm (PRC)		R573	22500169	4.7 ohm, Fusible, J
R485, 486	22545274	270K ohm (PRC)		R574	22545183	18K ohm (PRC)
R487, 488	22658793	500 ohm, Semi-fixed		R575, 576	22545223	22K ohm (PRC)
R489, 490	22545272	2.7K ohm (PRC)		R577, 578	22545682	6.8K ohm
R491, 492	22545123	12K ohm (PRC)		R579	22545154	150K ohm (PRC)
R493, 494	22545223	22K ohm (PRC)		R581 R583, 584	22545103 22658798	10K ohm (PRC) 10K ohm, Semi-fixed
R495, 496	22658801	50K ohm, Semi-fixed		R585, 586	22545472	4.7K ohm (PRC)
R497, 498 R499, 500	22545472	4.7K ohm (PRC)		R589	22657323	20K ohm, Variable,
R501, 502	22545104 22545273	100K ohm (PRC) 27K ohm (PRC)				Bias Adjust
R503, 504	22545273	2.7K ohm (PRC)		R590	22545104	100K ohm (PRC)
R505, 506	22545151	150 ohm (PRC)		R591	22545561	560 ohm
R507, 508	22545123	12K ohm (PRC)		R592, 593	22545681	680 ohm
R509, 510	22545153	15K ohm (PRC)		R594	22545681	680 ohm
R511, 512	22540694	5.1K ohm (PRC)		R595	22545103	10K ohm (PRC)
R513, 514	22545822	8.2K ohm (PRC)		R597, 598	22545106	10M ohm (TE)
R515, 516	22545123	12K ohm (PRC)		D601	22545192	1.0V abm
R517, 518	22545223	22K ohm (PRC)		R601 R602	22545182 22545221	1.8K ohm 220 ohm
R519, 520	22545333	33K ohm (PRC)		R603	22545221	2.2M ohm
R521, 522	22545181	180 ohm (PRC)		R604	22545223	10K ohm (PRC)
R523, 524 R525, 526	22545332	3.3K ohm (PRC)		R605	22545473	47K ohm (PRC)
R527, 528	22545224 22545332	220K ohm (PRC) 3.3K ohm (PRC)		R606	22545103	10K ohm (PRC)
1.021, 020	22545552	3.3K OIIII (1 110)				
L			1			

1)

4

1)

Symbol No.	Part No.	Description	
R607	22545222	2.2K ohm (PRC)	
R608	22545473	47K ohm (PRC)	
R609	22545103	10K ohm (PRC)	
R610	22545334	330K ohm (PRC)	
R611	22545183	18K ohm (PRC)	
R612	22545562	5.6K ohm (PRC)	
R613	22545473	47K ohm (PRC)	
R614	22545102	1K ohm (PRC)	
R615	22545104	100K ohm (PRC)	
R616	22545103	10K ohm (PRC)	
R617	22545471	470 ohm (PRC)	
R618	22545221	240 ohm (PRC)	
R619	22545331	330 ohm	
R620	22550497	30K ohm, G, 1/4W	
R621	22500177	33 ohm, Fusible, J	
R622	22570311	220 ohm, 2W	
R623	22545151	150 ohm (PRC)	
R624, 625	22545221	220 ohm (PRC)	
R626	22545473	47K ohm (PRC)	
R627	22545471	470 ohm (PRC)	
R628	22545472	4,7K ohm (PRC)	
R629	22545473	47K ohm (PRC)	
R630	22545473	47K ohm (PRC)	
R631	22545104	100K ohm (PRC)	
R632	22545102	1K ohm (PRC)	
R 633	22545102	1K ohm (PRC)	
R634	22545103	10K ohm (PRC)	
R635, 636	22545103	10K ohm (PRC)	
R637	22545222	2.2K ohm (PRC)	
R638	22545223	22K ohm (PRC)	
R 639	22545102	1K ohm	
R 901	22500272	2.2 ohm, Fusible, J	
R 902	22545331	330 ohm	
R 903	22545680	68 ohm	
R 904	22545102	1K ohm (PRC)	
R905	22500167	2.2 ohm, Fusible, J	
R 906	22500150	68 ohm, Fusible, J	
R 907	22545222	2.2K ohm	
R908	22545221	220 ohm	

Symbol No.	Part No.	Description	
ACCESSORIES			
AC01 AC02 AC02 AC02 AC02 AC03	22164775 22904025 22904165 22904168 22904169 22990983	PIN Plug Cord Owner's Manyal (TE) Owner's Manual (TU, AY) Owner's Manual (FR) Owner's Manual (TA) Owner's Manual (TC) Head Cleaner	

# **TOSHIBA CORPORATION**